

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

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PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing
(day/month/year)

17-09-2004

Applicant's or agent's file reference
52199WO

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/IB 2004/000238

International filing date (day/month/year)

02-02-2004

Priority date (day/month/year)

International Patent Classification (IPC) or both national classification and IPC

H04Q 7/32, G06F 15/78

Applicant

NOKIA CORPORATION et al

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further opinions, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

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Form PCT/ISA/237 (cover sheet) (January 2004)

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Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing
☐ table(s) related to the sequence listing

b. format of material

- ☐ in written format
☐ in computer readable form

c. time of filing/furnishing

- ☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-23	YES
	Claims		NO
Inventive step (IS)	Claims	1-23	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-23	YES
	Claims		NO

2. Citations and explanations:

Cited documents in the International Search Report:

D1: EP 0 992 916 A1
D2: US 5 812 870 A
D3: US 20030105948 A1
D4: US 2004018851 A1
D5: US 2001006902 A1

D1 provide a processor that is a programmable fixed point digital signal processor (DSP) with variable instruction length, offering both high code density and easy programming. Architecture and instruction set are optimized for low power consumption and high efficiency execution of DSP algorithms, such as for wireless telephones, as well as pure control tasks. The processor includes an instruction buffer unit a program flow control unit, an address/data flow unit, a data computation unit, and multiple interconnecting buses. Dual multiply-accumulate blocks improve processing performance. A memory interface unit provides parallel access o data and instruction memories. The instruction buffer is operable to buffer single and compound instructions pending execution thereof. A decode mechanism is configured to decode instructions from the instruction buffer. The use of compound instructions enables effective use of the bandwidth available within the processor. A soft dual memory instruction can be compiled from separate first and second programmed memory instructions. Instructions can be conditionally executed or repeatedly executed. Bit field processing and various addressing modes, such as circular buffer addressing, further support execution of DSP algorithms. The processor includes a multistage execution pipeline with pipeline protection features.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box V

Various functional modules can be separately powered down to conserve power. The processor includes emulation and code debugging facilities with support for cache analysis.

D2 describes a digital assistant computer device has an audio input interface and a memory adapted to receive audio input of significant time extent, and to convert the input and store it as a digital sound file. The digital assistant in one embodiment has a CPU and bus, input and display apparatus, on-board memory, and a microphone and digital signal processor for accepting and converting audio input. In some such embodiments the on-board memory is flash memory.

D3 A personal digital assistant module with a local CPU, memory, and I/O interface has a host interface comprising a bus connected to the local CPU and a connector at a surface bus connector of a host general-purpose computer, providing direct bus communication between the personal digital assistant and the host general-purpose computer. In an embodiment, the personal digital assistant also has a means for Coring a security code. The personal digital assistant according to the invention forms a host/satellite combination with a host computer having a docking bay, wherein upon docking a docking protocol controls access by the host to memory of the personal digital assistant based on one or more passwords provided by a user the host. In another embodiment the personal digital assistant has a compressed BIOS chip, and in yet another embodiment also has an expansion port connected to the local CPU, and expansion peripheral devices may be connected and operated through the expansion port.

D4 and D5 describe the prior art of the invention.

The invention defined in claims 1-23 is not disclosed by any of these documents. The cited prior art does not give any indication that would lead a person skilled in the art to the claimed method for insuring the operating state of a mobile electronic terminal device, which comprising an interface for connecting with a removable storage medium and containing a directory of programs essential for the

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In case the space in any of the preceding boxes is not sufficient.

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Operation of the mobile electronic terminal device, the method comprising: detecting if the status of said interface has changed; comparing programs currently running on the mobile electronic terminal device with programs contained in the directory of the essential programs; and terminating all currently running programs which are not contained in the directory of the essential programs.

Therefore, the invention defined in claims 1-23 is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-23 is novel and is considered to involve an inventive step. The invention defined in claims 1-23 is industrially applicable.